AIR CONFIDENTIAL [redacted] 25X1

SEP 23 1953

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- Information on Packaging and Burial Material.

REF: [redacted] 25X1

1. The following information is supplied relative to paragraphs 2 (1), (2), (3) of the reference.

(a) Type II Hot Dip Plastic Compound, under Specification JAN-C-149 is of a cellulose-acetate-butyrate formulation and is generally superior to Type I hot dip, which is of ethyl cellulose formulation. Hot dip has been successful in accelerated burial tests as well as actual burial operations. Items are usually dipped either bare, or are prewrapped in muslin bags or aluminum foil before being dipped. The Hot Dip Compound, Fungicide, is a relatively new material manufactured expressly for KUBARK. It has been proposed as an answer to burial problems where fungus and animal life in the soil might attack regular hot dip compounds. This material is being tested to determine its true effectiveness. The fungicide agent used is copper sulfate which results in a darkened, almost black, plastic coating. Fungicide hot dip does not meet Specification JAN-C-149, Type II because it tends to corrode copper due to its copper sulfate content. This is of no consequence unless copper objects are dipped. Although hot dip compounds have proven very successful as burial packaging, care must be used in the preparation. The dipped package should be carefully inspected to insure that there are no air bubbles to permit penetration of moisture, and that there are no thin spots of plastic as may be found over corners or protrusions of irregular shaped objects.

(b) The Barrier Material, Flexible Water-Vaporproof (Heavy Duty) is described in the [redacted] Devices Catalog, a copy of which is available at the [redacted] This material is described in Specification MIL-B-13238 (ORD) and was developed for burial 25X1 25X1

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and was developed for burial by [redacted] It is a particularly rugged 25X1
material employing a plastic lamination of two layers of "fiberthin" nylon cloth. It is sealed around any size object by the usual jaw type of heat sealer used for MIL-B-131 scrim-backed, metal foil, barrier material. This material is not recommended for exceptionally wet burial sites. Also it is admittedly difficult to seal and some patience must be employed to determine the proper temperature setting of the individual heat sealer, and the corresponding dwell time (period when jaws are closed, usually 10 to 15 seconds). The nylon backing of the material may become discolored during sealing, but this is of no concern. However, serious scorching or blistering of the material indicates too high a temperature setting or an excessive dwell time. Pressing the sealed area together with a hard roller after sealing has been used successfully to prevent small blisters.

(c) The Stainless Steel Burial Container (500 ea. sent on Cargo 15806-55 WOLF) is described in detail in the Devices Catalog. This is the only caching container available for general use, excluding those for communications equipment. As new containers are developed and issued you will be sent pertinent information. The burial container may be packed in accordance with normal interior packaging procedures such as use of cushioning material and desicant. Packing instructions for the S-1, L-1, and I-1 packs were forwarded with OEW-6169. Where possible the containers should be issued within wooden boxes to protect the paint coating and also prevent damage to the container from picks and shovels used for digging and burying.

2. The following material is being forwarded via the APO:

(a) TM 38-230 on Preservation Packaging, and Packing of Military Supplies and Equipment which [redacted] considers very helpful. 25X1

(b) Instructions as to the maintenance and operation of a hot dip tank with a wiring diagram.

(c) Commercial pamphlet on plastic packaging.

3. Headquarters will forward, as available, all information on new developments in packing, packaging and preservation.

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Distribution:

3 - [redacted] 25X1
1 - [redacted]
1 - [redacted]
1 - WE/6
1 - OL/SD
1 - RI

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